

WHAT IS CLAIMED IS:

1. A system for providing differentiated service in an information management environment, comprising a plurality of processing engines that are distributively interconnected, said system being capable of providing session-aware differentiated service.

2. The system of claim 1, wherein said processing engines are assigned separate information manipulation tasks in an asymmetrical multi-processor configuration.

3. The system of claim 1, wherein said plurality of processing engines are capable of interacting in a deterministic manner to provide said differentiated service.

4. The system of claim 1, said system being coupled to a network at a point outside a core of said network.

5. The system of claim 1, wherein said system comprises a network endpoint information management system.

6. The system of claim 1, wherein at least one of said plurality of processing engines is located physically remote from at least one other of said plurality of processing engines.

7. The system of claim 6, wherein two or more of said plurality of processing engines comprise at least one of separate components of a data center, separate components of a cluster of information management systems, separate processing engines that are distributively interconnected across a network, or a combination thereof.

8. The system of 1, wherein said system further comprises an operating system and deterministic system software in communication with said operating system; said deterministic system software having state knowledge of resource utilization within said system and being capable of deterministically controlling interaction between said distributively interconnected processing engines in response to communication received from said operating system.

9. The system of claim 8, wherein at least one of said processing engines comprises a monitoring agent capable of monitoring resource characteristic within said processing engine, and wherein said system further comprises a system monitor in communication with said monitoring agent that is capable of performing system management.

10. The system of claim 1, further comprising a deterministic system BIOS that provides a communication interface between one or more of said plurality of processing engines and said operating system, said deterministic system BIOS capable of managing system calls made to processing engines of said system architecture from at least one application in communication with said operating system.

11. The system of claim 10, wherein said deterministic system BIOS is capable of responding to application requests for resources with availability information, rerouting information, or SLA choice information.

12. The system of claim 11, wherein said application comprises at least one of an internet application, network content delivery application, or a combination thereof.

13. The system of claim 1, wherein said differentiated service comprises at least one of:

provisioning one or more system service parameters;

monitoring one or more system performance parameters related to information management in real time or on a historical basis;

managing performance of one or more information manipulation tasks related to said information management based on one or more class identification parameters associated with said information manipulation tasks and based on one or more provisioned system service parameters, one or more monitored system performance parameters, or a combination thereof;

reporting information related to said monitored system performance parameters; or

a combination thereof.

14. The system of claim 1, wherein said differentiated service comprises managing information traffic flow between two or more of said plurality of processing engines.

5 15. The system of claim 1, wherein said differentiated service comprises managing performance of one or more information manipulation tasks related to said information management by two or more of said plurality of processing engines concurrently based at least in part on one or more priority-indicative parameters associated with said information manipulation tasks, one or more priority-indicative parameters associated with a request for
10 said information manipulation tasks, one or more priority-indicative parameters associated with a user requesting said information manipulation tasks, or a combination thereof.

16. The system of claim 1, wherein said system is coupled to a network; and wherein said differentiated service comprises manipulating information in a differentiated manner based at
15 least in part on a status of at least one parameter associated with a request received from a network for said information manipulation.

17. The system of claim 16, wherein said parameter comprises priority-indicative information associated with said request.
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18. The system of claim 17, wherein said system comprises a content delivery system; wherein said request comprises a request for content; and wherein said manipulating information comprises delivering content.

25 19. The system of claim 18, wherein said system comprises a network endpoint content delivery system.

20. The system of claim 1, wherein said system further comprises an operating system that is configured in deterministic communication with system or subsystem components that
30 are external to said system.

21. The system of claim 20, wherein said external system or subsystem components comprise clustered arrangements of geographically dispersed systems, subsystems or components.

22. The system of claim 20, wherein said external system or subsystem components comprise components not directly coupled to said system through a common distributed interconnect.

23. The system of claim 1, wherein said differentiated service comprises differentiated business service.

24. The system of claim 1, wherein said differentiated service comprises differentiated information service.

25. A method of providing session-aware differentiated service in an information management environment, comprising providing said differentiated service using an information management system comprising a plurality of processing engines that are distributively interconnected.

26. The method of claim 25, wherein said processing engines are assigned separate information manipulation tasks in an asymmetrical multi-processor configuration.

27. The method of claim 25, wherein said plurality of processing engines are capable of interacting in a deterministic manner to provide differentiated service.

28. The method of claim 25, said system being coupled to a network at a point outside a core of said network.

29. The method of claim 25, wherein said system comprises a network endpoint information management system.

30. The method of claim 25, wherein at least one of said plurality of processing engines is located physically remote from at least one other of said plurality of processing engines.

31. The method of claim 30, wherein two or more of said plurality of processing engines comprise at least one of separate components of a data center, separate components of a

cluster of information management systems, separate processing engines that are distributively interconnected across a network, or a combination thereof.

32. The method of 25, wherein said system further comprises an operating system and deterministic system software in communication with said operating system; said deterministic system software having state knowledge of resource utilization within said system; and wherein said method further comprises using said deterministic system software to deterministically control interaction between said distributively interconnected processing engines in response to communication received from said operating system.

33. The method of claim 32, wherein at least one of said processing engines comprises a monitoring agent; wherein said system further comprises a system monitor in communication with said monitoring agent; and wherein said method further comprises using said monitoring agent to monitor resource characteristics within said at least one processing engine, and using said system monitor to perform system management within said system.

34. The method of claim 25, wherein said system further comprises a deterministic system BIOS that provides a communication interface between one or more of said plurality of processing engines and said operating system; and wherein said method further comprises using said deterministic system BIOS to manage system calls made to processing engines of said system architecture from at least one application in communication with said operating system.

35. The method of claim 34, wherein said method further comprises using said deterministic system BIOS to respond to application requests for resources with availability information, rerouting information, or SLA choice information.

36. The method of claim 35, wherein said application comprises at least one of an internet application, network content delivery application, or a combination thereof.

37. The method of claim 25, wherein said method further comprises at least one of:

provisioning one or more system service parameters;

monitoring one or more system performance parameters related to information management in real time or on a historical basis;

managing performance of one or more information manipulation tasks related to said information management based on one or more class identification parameters associated with said information manipulation tasks and based on one or more provisioned system service parameters, one or more monitored system performance parameters, or a combination thereof;

reporting information related to said monitored system performance parameters; or
a combination thereof.

38. The method of claim 25, wherein said method further comprises managing information traffic flow between two or more of said plurality of processing engines.

39. The method of claim 25, wherein said method further comprises managing performance of one or more information manipulation tasks related to said information management by two or more of said plurality of processing engines concurrently based at least in part on one or more priority-indicative parameters associated with said information manipulation tasks, one or more priority-indicative parameters associated with a request for said information manipulation tasks, one or more priority-indicative parameters associated with a user requesting said information manipulation tasks, or a combination thereof

40. The method of claim 25, wherein said system is coupled to a network; and wherein said method further comprises manipulating information in a differentiated manner based at least in part on a status of at least one parameter associated with a request received from a network for said information manipulation.

41. The method of claim 40, wherein said parameter comprises priority-indicative information associated with said request.

42. The method of claim 41, wherein said system comprises a content delivery system; wherein said request comprises a request for content; and wherein said manipulating information comprises delivering content.

43. The method of claim 42, wherein said system comprises a network endpoint content delivery system.

44. The method of claim 25, wherein said system further comprises an operating system configured in deterministic communication with system or subsystem components that are external to said system.

45. The method of claim 44, wherein said external system or subsystem components comprise clustered arrangements of geographically dispersed systems, subsystems or components.

46. The method of claim 44, wherein said external system or subsystem components comprise components not directly coupled to said system through a common distributed interconnect.

47. The method of claim 25, wherein said differentiated service comprises differentiated business service.

48. The method of claim 25, wherein said differentiated service comprises differentiated information service.

49. A system for providing differentiated service in an information management environment, comprising a plurality of processing engines that are distributively interconnected across a network, said system being capable of providing differentiated service.

50. The system of claim 49, wherein two or more of said plurality of processing engines are distributively interconnected across said network using a deterministic system BIOS, a deterministic operating system, or a combination thereof.

51. The system of claim 49, wherein two or more of said plurality of processing engines are distributively interconnected across said network by a virtual distributed interconnect backplane.

5 52. The system of claim 51, wherein said virtual distributed interconnect backplane is implemented using components comprising fiber optic transmission hardware in combination with wavelength division multiplexing technology or dense wavelength division multiplexing technology.

10 53. The system of claim 51, wherein at least one of said plurality of processing engines is located physically remote from one or more other of said processing engines.

54. The system of claim 53, wherein at least one of said plurality of processing engines is located geographically remote from one or more of said other processing engines.

15 55. The system of claim 53, wherein at least one of said plurality of processing engines is located in a separate chassis from one or more other of said processing engines in a common facility to form a data center configuration in said common facility.

20 56. The system of claim 53, wherein said plurality of processing engines comprise a system management processing engine, a storage management processing engine, and an application processing engine.

25 57. The system of claim 56, wherein at least one of said plurality of processing engines is present in a location that is geographically remote from one or more of said other processing engines.

58. The system of claim 53, wherein said system further comprises shared resources that may be virtually exchanged between said processing engines on an as-needed basis.

30 59. The system of claim 58, wherein said shared resources comprise information storage capacity, information processing capacity, or a combination thereof.

60. The system of claim 49, wherein said differentiated service comprises managing performance of one or more information manipulation tasks related to information

management by two or more of said plurality of processing engines concurrently based at least in part on one or more priority-indicative parameters associated with said information manipulation tasks, one or more priority-indicative parameters associated with a request for said information manipulation tasks, one or more priority-indicative parameters associated with a user requesting said information manipulation tasks, or a combination thereof.

61. The system of claim 49, wherein said differentiated service comprises manipulating information in a differentiated manner based at least in part on a status of at least one parameter associated with a request received from a network for said information manipulation.

62. The system of claim 61, wherein said parameter comprises priority-indicative information associated with said request.

63. The system of claim 62, wherein said system comprises a content delivery system; wherein said request comprises a request for content; and wherein said manipulating information comprises delivering content.

64. The system of claim 49, wherein said differentiated service comprises differentiated business service.

65. The system of claim 49, wherein said differentiated service comprises differentiated information service.

66. A method of providing differentiated service in an information management environment, comprising providing said differentiated service using a system comprising a plurality of processing engines that are distributively interconnected across a network.

67. The method of claim 66, wherein two or more of said plurality of processing engines are distributively interconnected across said network using a deterministic system BIOS, a deterministic operating system, or a combination thereof.

68. The method of claim 66, wherein two or more of said plurality of processing engines are distributively interconnected across said network by a virtual distributed interconnect backplane.

69. The method of claim 68, wherein said virtual distributed interconnect backplane is implemented using components comprising fiber optic transmission hardware in combination with wavelength division multiplexing technology or dense wavelength division multiplexing technology.

70. The method of claim 68, wherein at least one of said plurality of processing engines is located physically remote from one or more other of said processing engines.

71. The method of claim 70, wherein at least one of said plurality of processing engines is located geographically remote from one or more of said other processing engines.

72. The method of claim 68, wherein at least one of said plurality of processing engines is located in a separate chassis from one or more other of said processing engines in a common facility to form a data center configuration in said common facility.

73. The method of claim 68, wherein said plurality of processing engines comprise a system management processing engine, a storage management processing engine, and an application processing engine.

74. The method of claim 73, wherein at least one of said plurality of processing engines is present in a location that is geographically remote from one or more of said other processing engines.

75. The method of claim 70, wherein said method further comprises sharing resources by virtually exchanging said resources between said processing engines on an as-needed basis.

76. The method of claim 75, wherein said method comprises virtually exchanging resources comprising at least one of information storage capacity, information processing capacity, or a combination thereof.

77. The method of claim 66, wherein said method comprises managing performance of one or more information manipulation tasks related to information management by two or more of said plurality of processing engines concurrently based at least in part on one or more priority-indicative parameters associated with said information manipulation tasks, one or more priority-indicative parameters associated with a request for said information manipulation tasks, one or more priority-indicative parameters associated with a user requesting said information manipulation tasks, or a combination thereof.

78. The method of claim 66, wherein said system is coupled to a network; and wherein said method further comprises manipulating information in a differentiated manner based at least in part on a status of at least one parameter associated with a request received from a network for said information manipulation.

79. The method of claim 78, wherein said parameter comprises priority-indicative information associated with said request.

80. The method of claim 79, wherein said system comprises a content delivery system; wherein said request comprises a request for content; and wherein said manipulating information comprises delivering content.

81. The method of claim 66, wherein said differentiated service comprises differentiated business service.

82. The method of claim 66, wherein said differentiated service comprises differentiated information service.

83. A system for providing differentiated service in an information management environment, comprising a plurality of processing engines that are distributively interconnected as components in a data center configuration, said system being capable of providing differentiated service.

84. The system of claim 83, wherein at least one of said plurality of processing engines is located physically remote from at least one other of said plurality of processing engines.

85. The system of claim 84, wherein at least one of said plurality of processing engines is located in a separate chassis from one or more other of said processing engines in a common facility to form a data center configuration in said common facility.

86. The system of claim 83, wherein said plurality of processing engines comprise a plurality of separate devices distributively interconnected in said data center configuration; and wherein said data center configuration enables deterministic management of information flow between said separate devices.

87. The system of claim 83, wherein said processing engines are assigned separate information manipulation tasks in an asymmetrical multi-processor configuration.

88. The system of claim 83, wherein said plurality of processing engines are capable of interacting in a deterministic manner to provide said differentiated service.

89. The system of claim 83, said system being coupled to a network at a point outside a core of said network.

90. The system of claim 83, wherein said system comprises a network endpoint information management system.

91. The system of claim 88, wherein said plurality of processing engines comprise a system management processing engine, a storage management processing engine, and an application processing engine.

92. The system of claim 91, wherein said processing engines are distributively interconnected in a configuration suitable for providing delivery traffic management policies to multiple components of said data center concurrently.

93. The system of claim 91, wherein said processing engines are distributively interconnected in a configuration suitable for implementing SLA policies in multiple components of said data center concurrently.

94. The system of claim 91, wherein system is coupled to a network; wherein said processing engines comprise multiple storage management processing engines, multiple application processing engines, or a combination thereof; and wherein said processing engines further comprise a load balancing agent capable of load-balancing traffic requests received from said network between said multiple storage management processing engines, between said multiple application processing engines, or a combination thereof.

95. The system of claim 94 wherein each of said multiple storage management processing engines or each of said multiple application processing engines comprises a system monitor capable of communicating resource availability information related to its respective storage management or application processing engine to said load balancing agent; and wherein said load balancing agent is capable of processing said requests based at least in part on said resource availability information.

96. The system of claim 88, wherein said differentiated service comprises managing performance of one or more information manipulation tasks related to said information management by two or more of said plurality of processing engines concurrently based at least in part on one or more priority-indicative parameters associated with said information manipulation tasks, one or more priority-indicative parameters associated with a request for said information manipulation tasks, one or more priority-indicative parameters associated with a user requesting said information manipulation tasks, or a combination thereof.

97. The system of claim 83, wherein said differentiated service comprises manipulating information in a differentiated manner based at least in part on a status of at least one parameter associated with a request received from a network for said information manipulation.

98. The system of claim 97, wherein said parameter comprises priority-indicative information associated with said request.

99. The system of claim 98, wherein said system comprises a content delivery system; wherein said request comprises a request for content; and wherein said manipulating information comprises delivering content.

100. The system of claim 99, wherein said system comprises a network endpoint content delivery system.

101. The system of claim 83, wherein said differentiated service comprises differentiated business service.

102. The system of claim 83, wherein said differentiated service comprises differentiated information service.

103. A method of providing differentiated service in an information management environment, comprising providing said differentiated service using a system comprising a plurality of processing engines that are distributively interconnected as components in a data center configuration.

104. The method of claim 103, wherein at least one of said plurality of processing engines is located physically remote from at least one other of said plurality of processing engines.

105. The method of claim 104, wherein at least one of said plurality of processing engines is located in a separate chassis from one or more other of said processing engines in a common facility to form a data center configuration in said common facility.

106. The method of claim 103, wherein said plurality of processing engines comprise a plurality of separate devices distributively interconnected in said data center configuration; and wherein said method further comprises deterministically managing information flow between said separate devices.

107. The method of claim 103, wherein said processing engines are assigned separate information manipulation tasks in an asymmetrical multi-processor configuration.

108. The method of claim 103, wherein said plurality of processing engines are capable of interacting in a deterministic manner to provide differentiated service.

109. The method of claim 103, said system being coupled to a network at a point outside a core of said network.

110. The method of claim 103, wherein said system comprises a network endpoint information management system.

111. The method of claim 108, wherein said plurality of processing engines comprise a system management processing engine, a storage management processing engine, and an application processing engine.

112. The method of claim 111, wherein said method further comprises providing delivery traffic management policies to multiple components of said data center concurrently.

113. The method of claim 111, wherein said further comprises implementing SLA policies in multiple components of said data center concurrently.

114. The method of claim 111, wherein system is coupled to a network; wherein said processing engines comprise multiple storage management processing engines, multiple application processing engines, or a combination thereof; wherein said processing engines further comprise a load balancing agent; and wherein said method further comprises using said load balancing agent to load-balance traffic requests received from said network between said multiple storage management processing engines, between said multiple application processing engines, or a combination thereof.

115. The method of claim 113 wherein each of said multiple storage management processing engines or each of said multiple application processing engines comprises a respective system monitor; and wherein said method further comprises using each of said system monitors to communicate resource availability information related to its respective storage management or application processing engine to said load balancing agent; and wherein said method further comprises using said load balancing agent to process said requests based at least in part on said resource availability information.

116. The method of claim 108, wherein said method comprises managing performance of one or more information manipulation tasks related to said information management by two or more of said plurality of processing engines concurrently based at least in part on one or more priority-indicative parameters associated with said information manipulation tasks, one

or more priority-indicative parameters associated with a request for said information manipulation tasks, one or more priority-indicative parameters associated with a user requesting said information manipulation tasks, or a combination thereof.

5 117. The method of claim 103, wherein said method comprises manipulating information in a differentiated manner based at least in part on a status of at least one parameter associated with a request received from a network for said information manipulation.

10 118. The method of claim 117, wherein said parameter comprises priority-indicative information associated with said request.

15 119. The method of claim 118, wherein said system comprises a content delivery system; wherein said request comprises a request for content; and wherein said manipulating information comprises delivering content.

20 120. The method of claim 119, wherein said system comprises a network endpoint content delivery system.

25 121. The method of claim 103, wherein said differentiated service comprises differentiated business service.

30 122. The method of claim 103, wherein said differentiated service comprises differentiated information service.

35 123. A method of providing differentiated service in a network environment, said method comprising providing differentiated service from a distributed set of system platforms, a distributed set of subsystem platforms, or a combination thereof; wherein said platforms are distributively interconnected across a network.

40 124. The method of claim 123, wherein one or more of said platforms are physically remote platforms that are interconnected in a virtual manner across said network.

125. The method of claim 124, wherein one or more of said platforms may be dynamically added or removed from distributed interconnection with others of said distributed set of system platforms or distributed set of subsystem platforms.

126. The method of claim 125, wherein said distributed set of system platforms or distributed set of subsystem platforms together comprise an information management system, and wherein said providing differentiated service comprises deterministically adding or removing one or more of said platforms from distributed interconnection with others of said distributed set of system or subsystem platforms on a real time basis during the management of information.

127. The method of claim 125, wherein said method further comprises receiving a request for information management from a user, and wherein said providing differentiated service comprises virtually adding or removing one or more of said platforms from distributed interconnection with others of said distributed set of system or subsystem platforms on a real time basis based on one or more characteristics associated with said request for information management, one or more characteristics associated with said information managed by said information management system, one or more characteristics associated with said user, or a combination thereof.

128. The method of 126, wherein one or more of said system or subsystem platforms represent shared resources of said information management system, and wherein said providing differentiated service further comprises virtually adding or removing one or more of said platforms from distributed interconnection with others of said distributed set of system or subsystem platforms on a real time basis based on need for shared resources to fulfill a request for information management.

129. The method of claim 127, wherein said wherein said information management system comprises a system or subsystem platform configured as a host processing engine that receives said request for information management; and wherein said method further comprises processing said request for information management in said host processing engine and notifying other system or subsystem platforms as required to fulfill said request for information management.

130. The method of claim 129, wherein said information management system comprises a content delivery system, wherein said request for information management is a request for content delivery, wherein at least one of said distributed set of system or subsystem platforms comprises a storage management engine, and wherein said method comprises notifying said storage management engine to fulfill said request for content by delivering said content directly to said user via said network.

131. The method of claim 130, wherein said providing differentiated service comprises processing said request in said host processing engine and notifying said storage management engine based on one or more characteristics associated with said request for content delivery, one or more characteristics associated with said content managed by said information management system, one or more characteristics associated with said user, or a combination thereof.

132. The method of claim 130, wherein said providing differentiated service comprises processing said request in said host processing engine and notifying said storage management engine based on one or more characteristics associated with said request for content delivery, one or more characteristics associated with said user, or a combination thereof; and wherein said one or more characteristics associated with said request comprises priority-indicative parameter information associated with said request; and wherein said one or more characteristics associated with said user comprises priority-indicative parameter information associate with said user.

133. The method of claim 130, wherein said providing differentiated service comprises at least one of:

reading incoming classification information associated with incoming data packets in one or more of said distributed set of system or subsystem platforms and handling said incoming data packets in a differentiated manner based on said incoming classification information associated with said data packets; or

tagging outgoing data packets by one or more of said distributed set of system or subsystem platforms with outgoing classification information readable by one or more core nodes of said network, said outgoing classification information being reflective of

differentiated handling instructions for said outgoing data packets by one or more of said core nodes; or

a combination thereof.

134. The method of claim 133, wherein said differentiated service comprises differentiated business service.

135. The method of claim 133, wherein said differentiated service comprises differentiated information service.

136. A system for providing differentiated service in a network environment, said system comprising a distributed set of system platforms, a distributed set of subsystem platforms, or a combination thereof; wherein said platforms are distributively interconnected across a network; and wherein said system is capable of providing differentiated service.

137. The system of claim 136, wherein one or more of said platforms are physically remote platforms that are interconnected in a virtual manner across said network.

138. The system of claim 137, wherein said system is capable of dynamically adding or removing one or more of said platforms from distributed interconnection with others of said distributed set of system platforms or distributed set of subsystem platforms.

139. The system of 138, wherein said distributed set of system platforms or distributed set of subsystem platforms together comprise an information management system, and wherein said system is capable of deterministically adding or removing one or more of said platforms from distributed interconnection with others of said distributed set of system or subsystem platforms on a real time basis during the management of information.

140. The system of claim 138, wherein said system is capable of virtually adding or removing one or more of said platforms from distributed interconnection with others of said distributed set of system or subsystem platforms on a real time basis in response to a request for information management from a user, and based on one or more characteristics associated

with said request for information management, one or more characteristics associated with said information managed by said information management system, one or more characteristics associated with said user, or a combination thereof.

141. The system of 139, wherein one or more of said system or subsystem platforms represent shared resources of said information management system, and wherein said system is capable of virtually adding or removing one or more of said platforms from distributed interconnection with others of said distributed set of system or subsystem platforms on a real time basis based on need for shared resources to fulfill a request for information management.

142. The system of claim 140, wherein said wherein said information management system comprises a system or subsystem platform configured as a host processing engine that is capable of receiving said request for information management; and wherein said system is further capable of processing said request for information management in said host processing engine and notifying other system or subsystem platforms as required to fulfill said request for information management.

143. The system of claim 142, wherein said information management system comprises a content delivery system, wherein said request for information management is a request for content delivery, wherein at least one of said distributed set of system or subsystem platforms comprises a storage management engine, and wherein said system is capable of notifying said storage management engine to fulfill said request for content by delivering said content directly to said user via said network.

144. The system of claim 143, wherein said system is capable of providing said differentiated service by processing said request in said host processing engine and notifying said storage management engine based on one or more characteristics associated with said request for content delivery, one or more characteristics associated with said content managed by said information management system, one or more characteristics associated with said user, or a combination thereof.

145. The system of claim 143, wherein said system is capable of providing differentiated service by processing said request in said host processing engine and notifying said storage

management engine based on one or more characteristics associated with said request for content delivery, one or more characteristics associated with said user, or a combination thereof; and wherein said one or more characteristics associated with said request comprises priority-indicative parameter information associated with said request; and wherein said one or more characteristics associated with said user comprises priority-indicative parameter information associate with said user.

146. The system of claim 143, wherein said system is capable of providing said differentiated service by at least one of:

reading incoming classification information associated with incoming data packets in one or more of said distributed set of system or subsystem platforms and handling said incoming data packets in a differentiated manner based on said incoming classification information associated with said data packets; or

tagging outgoing data packets by one or more of said distributed set of system or subsystem platforms with outgoing classification information readable by one or more core nodes of said network, said outgoing classification information being reflective of differentiated handling instructions for said outgoing data packets by one or more of said core nodes; or

a combination thereof.

147. The system of claim 146, wherein said differentiated service comprises differentiated business service.

148. The system of claim 146, wherein said differentiated service comprises differentiated information service.